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NOTES ON RHODODENDRONS OF EASTERN AND SOUTHERN CHINA

Tam Pui-cheung

1. 灰齿杜鹃 新种 (映山红亚属, 轮生叶组)

Rhododendron cinereoserratum Tam, sp. nov.

(Subgen. *Anthodendron* (Reich.) Endl., Sect. *Brachycalyx* Sweet)

本种性状似华丽杜鹃 *Rh. farrerae* Tate, 但叶卵状长圆形或近菱形, 较小, 边缘有细密锯齿, 蒴果杂以银色长柔毛, 易于区别。

Haec species, habitu *Rh. farrerae* Tate satis similis, sed foliis ovato-oblongis vel subrhombicis, minoribus, praecipue laminis margine dense serrulatis, capsulis cum argente villosis intermixtis indutis non congruit.

Frutex 1—2m altus, cortice griseo-fusco, ramis ramulisque teretibus longitudinaliter striatis, dilute cinereo-castaneis, initio dense setulosis ferrugineis maturascentibus glabratis. Folia plerumque 3 sub-verticellata, crasso-coriacea, ovato-oblonga vel subrhombica, 2.3—4.5cm longa, 1—2.5cm lata, apice abrupte

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acuta, mucronata, basi cuneata, margine dense serrulata, leviter revoluta, supra costa media impressa, furfuraceo-brunnea puberula, nervis lateralibus indistinctis, subtus tomentosa dense sed tenuia et punctata laxe glandularia, costa media elevata, nervis lateralibus 4. gracilibus; petioli breves, circa 3—5mm, ferrugineo-setulosi vel subsessiles. Flores ignoti. Capsula brevi-cylindracea 1-1.5cm longa, 3—4mm in diam., griseo-brunneola, pubis setulosis cum argenteo-villosis intermixtis tecta, lobis calycis 5, undulatis vel sub-crenatis, setulosis; stipite 8—10mm longo, setuloso.

Fujian (福建): Fuan Xian (福安县), in silvis mixtis, nom. vern. "Gouguchai" (狗骨柴), 1 Sept. 1958, Coll. Silv. Fujian 32408; Nanjing Xian (南靖县), Huxi (和溪), Linhai (The Ocean of Forest), Univ. Amoy (厦门大学) 20 (Typus, H*).

Jiangxi (江西): Shicheng Xian (石城县), Jingfong Shan (金凤山), 12 Sept. 1958, C. M. Hu (胡启明) 4878; Anyuan Xian (安远县), in declive silvae mixtae, frut. 2m altus, raro, 31 Maj. 1958. C. M. Hu 2141, 2564.

2. 戴云山杜鹃 新种 (映山红亚属, 轮生叶组)

Rhododendron daiyunicum Tam, sp. nov

(Subgen. *Anthodendron*, Sect. *Brachycalyx*)

近似华丽杜鹃 *Rh. farrerae* Tate, 不同处在于: 嫩枝近无毛, 叶长圆状披针形或长圆形, 背面被薄绵毛; 叶柄密被糙伏毛杂以长刚毛, 花萼裂片细圆齿状。

Rh. farreram Tate aemulans, differt ramulis juventute subglabris, foliis oblongo-lanceolatis oblongisve, subtus tenue lanosis petiolis dense strigosis et longe setosis intermixtis, non pilosis, calyce lobis prominente crenulatis.

* The following letters represent the herbarium in which the type specimen was conserved:

S=South China Botanical Institute, Academia Sinica

N=Fujian Normal University

H=Amoy University

FM=Institute of Material Medicine, Fujian

GM=Institute of Material Medicine, Guangdong

Frutex, rami teretes, pallido-fumosi, glabri, ramuli subverticillati, graciles, sparse ferrugineo-setulosi vel subglabri, in statu sicco fusci. Folia crasso-coriacea, semper 3-verticillata, oblongo-lanceolata vel oblonga, 2.8—3.8cm longa, 1.3—1.7cm lata, apice aculiuscula, basi cuneata, margine manifeste revoluta, supra in sicco opace brunnea, costa media distincto-impres-sa, subtus pallidiora, tomento strato tenue lanoso obducta, in sicco luteo-brunneola, nervis lateralibus 6—7; petioli 3—4mm longi, dense brunneo-strigosi, plerumque longe setosi intermixti. Inflorescentia terminalis, pedicelli 6—8mm longi, dense minute strigosi, squamis persistentibus, calyce dense rubro-fusci-strigoso, lobis 5, crenulatis, 5—6mm longis, corolla oblique infundibuliformi-campanulata, rosea, maculata 2.5cm longa, 3—3.5cm lata, tubo brevi-tubulare, 3—5mm longo, 3—4mm lato, lobis obovato-oblongis 2—2.2cm longis, circa 1 cm latis, apice subrotundatis, emarginatis et mucronatis, basi attenuatis, stamina 10, 1.5—2.5cm longa, filamentis, puberulis, stylo 2.5cm longo, glabro, Fructus ignotus.

Fujian (福建): Dehua Xian (德化县), proe Catervam Daiyun (戴云大队) 20 Apr. 1975, L. K. Ling (林来官, 3140 (Typus, N); ibid. S. Jiang (姜恕), sine num.

3. 上杭杜鹃 新种 (映山红亚属, 映山红组) 照片 1

Rhododendron apricum Tam, sp. nov.

(Subgen. *Anthodendron*, Sect. *Anthodendron*)

近似茶绒杜鹃 *Rh. rufescens* Tam, 但叶面在放大镜下可见小疣瘤, 两面干时黄褐色, 花萼分裂, 裂片三角形, 花冠裂片长圆状倒卵形, 花药顶端截平。

Prope *Rh. rufescens*, Tam, sed foliis supra verruculis sub lente visibilibus dispersis, utrinque luteo-brunneis, calyce lobato, lobis triangularibus, corollae lobis oblongo-obovatis, antheris apice truncatis differt.

Frutex, rami verrucosi manifesti et orbiculares, ramuli plures tortuosi, nitido-grisei, dense et patente setulosi et glandula-

ri-pubescentes. Folia coriacea, dimorpha: vernalia elliptica vel oblonga, 3.5—3.8cm longa apice brevi-acuminata, supra subglabra verruculis sub lente visibilibus dispersa, subtus dense falvi-brunneo-pubescentes et patente brevi-strigosa; nervis lateralibus 6—8, anastomasantibus; petioli breves crassi, 2—2.5mm longi, pilis densis patentibus setuliformibus et glandulari-pubescentibus intermixtis; (folia) aestivalia minores elliptica usque oblongo-lineares, 1.5—1.8cm longa, 7—8mm lata, subsessilia. Inflorescentia terminalis umbelliformis, circa 14 flora; pedicelli graciles, 5—6.5mm longi, dense strigosi, calyx patelliformis, dense strigosus, lobis 5, triangularibus, apice acutis; corolla anguste infundibuliformis 1.8cm longa, 1.6cm diam. rubra vel roseo-rubra, tubo clavato-cylindrico, 1cm longo, 2.5—4cm lato, sursum leviter dilatato, lobis 5, oblongo-obovatis, 0.8cm longis, 0.5cm latis, apice brevi-acutis vel subobtusis, stamina 5, pergraciles, 2.3—2.5cm longa, glabra, apice truncata; ovario ovoideo vel ovato, 3.5mm longo, stylo pergracile, elongato 2.5—3cm longo, glabro, stigmate discoideo, truncato. Fructus ignotus.

Fujian (福建): Shanghang Xian, (上杭县), Comm. Wenyang (蚊洋大队), 400—500m s. m., in aprico, dumeto, 13 Maj. 1974, L. K. Lee (李良官) 740740 (Typus, FM).

3a. 镰叶杜鹃 新变种

var. *falcinellum* Tam, var. nov.

叶顶端常具近镰状短尖头, 花序的花较少, 有时 3—5 朵。

Foliis apice saepe subfalcato-mucronatis, inflorescentia pauci-interdum 3—5-flora.

Fujian (福建): Anxi Xian (安溪县), 20 Apr. 1974, L. K. Lee (李良官) 740125 (Typus, FM); Dehua Xian (德化县), 1975, L. K. Lin 6047.

4. 繁花杜鹃 新种 (映山红组) 照片 2

Rhododendron florulentum Tam, sp. nov.

(Sect. *Anthodendron*)

不同于广东杜鹃 *Rh. kwangtungensi* Merr. et Chun 之处在于:

本种的雄蕊比花柱长，花序密集，每花序有花12—14朵，花萼裂片明显，三角形，春发叶卵形至椭圆状卵形，

A *Rh. kwangtungensi* Merr. et Chun, staminibus stylis longioribus, inflorescentiis compactis, in quaque 12—14-floris, calycis lobis prominente-deltoides, foliis vernalibus ovatis usque elliptico-ovatis recedens.

Frutex, ramulis paulo robustis, teretibus, rubro-brunneis, patentibus ferrugineis setuliformis et setosis glandularibus. Folia coriacea, dimorphica: vernalia ovata usque elliptico-ovata, inaequalilia, majora, 8.5cm longa, 4.5cm lata, non raro 5.8cm longa, 3cm lata, apice abrupte acutiuscula, interdum apice emarginata, basi lato-cuneata usque suborbicularia, supra rarissime argenteo-pilosa, subtus dense ochraceo-brunnea lanosa et ferrugineo-strigosa intermixta, nervis lateralibus circa 6-jugatis, supra impressis, furfuraceo-puberulentis, subtus dense strigosis, petioli paulo crassi, 6—10mm longi, tomento ut in ramulo simulentis, (folia) aestivalia elliptica vel ovato-elliptica, minora, 2.2—3cm longa, 1—1.3cm lata, nervis lateralibus circa 4—5, ceterum ut vernalia. umbella terminata plerumque 12—14-flora, pedicelli erecti vel adscendentes, 9—13mm longi, dense strigosi lucidi, calyx parvi-poculiformis, lobis 5, deltoides, apice acutis, dense strigosis, corolla tubulari-infundibuliformis, 2.5cm longa, rosea, lobis 5, angusto-oblongis vel lanceolato-oblongis, apice, brevi-acuminatis, margine leviter crispatis, stamina 5, 2.5—2.8cm longa, pro maxima parte stylo longiora et stylum superantes, filamentis glabris, ovario ovoideo, 3mm longo, dense strigosa, stylo gracile, 2.5cm longo, glabro.

Fujian (福建): Longyan Xian (龙岩县), yanzhong (颜中), in silvis mistis declivitatibus, fl. ros., 10 Maj. 1974, L. K. Lee (李良官) 740501 (Typus, FM); sine loco L. K. Lee 741, 841, 851

5. 忍冬杜鹃 新种 (映山红组) 照片 3

Rhododendron loniceraeflorum Tam, sp. nov.

(Sect. *Anthodendron*)

与紫花杜鹃 *Rh. mariae* Hance 近似, 不同处在于: 花冠管歪斜、伸长, 一面膨起, 花柱基部疏被糙伏毛, 花序有花 4—5 朵, 春发叶披针形或长圆状披针形。

Differt a *Rh. mariae* Hance corollis tubis oblique elongatis et ventriculis, stylis basi sparsim strigosis, inflorescentia 4-5-flora, foliis vernalibus lanceolatis oblongo-lanceolatisve.

Frutex, ramulis griseo-brunneis pergracilibus, tortuosis, juventute strigosis, foliis tenuiter coriaceis, dimorphis, vernalibus lanceolatis vel oblongo-lanceolatis, 4.5—5.5cm longis, 1.2—1.6cm latis, basi apiceque acutis vel attenuatis, interdum basi anguste cuneatis, supra sparse strigosis, subtus pannosis et ferrugineo-strigosis intermixtis, nervis lateralibus circa 6-jugatis, supra impressis, petiolis potius et breve crassis circa 6mm dense strigosis, (foliis) aestivalibus minoribus, 1.5-2cm longis, 5—7mm latis, ceterum ut vernalibus, petiolis multo-brevioribus. Umbellae 4—5-florae, flores 3.5cm longi, pedicelli graciles, 8.5mm longi, 1mm diam., rubro-brunnei strigosi, calyce anguste disciforme, dense strigoso, lobis 5, triangularibus, 1.5mm altis, 1mm diam., apice acutis, erosulosis, corolla dilute rubro-purpurea, tubo elongate cylindrico, oblique ventriculo, 1.8—2.5cm longo, 3—7mm lato, lobis 5, irregulariter elliptico-ovatis, 1.2—1.3mm longis, 9—10mm latis, apice obtusis; stamina 5, filamentis 3.3—3.5cm longis, infra medium puberulentis, ovario ovoideo, 3mm longo, 2.5mm diam., strigoso ferrugineo, stylo gracile, 4.2cm longo, basi sparsim strigoso, stigmate depresso-capitato. Capsula prematura, ovoidea, circa 4mm diam., dense strigosa, in terminum, stylo persistente pradita.

Fujian: 安溪县, aprico vallis, in silva laxa, flores roseis, Apr. 1974, L. K. Lee (李良官) 740123 (Typus, FM); L) K. Lec 821.

6. 南平杜鹃 新种 (映山红组)

Rhododendron nanpingense Tam, sp. nov.

(Sect. *Anthodendron*)

近似紫花杜鹃 *Rh. mariae* Hance, 不同处为: 叶厚而小, 春发叶椭圆形

或长圆状椭圆形，长4—5.5厘米，夏发叶长1.5—2厘米，边缘被缘毛，侧脉常不明显，花萼裂片不明显的钝三角形，花丝基部以上被微柔毛。

Affine *Rh. mariae* Hance recedit foliis crassis et minoribus, vernalibus ellipticis vel oblongo-ellipticis, 4—5.5cm longis, 1.5—1.8cm latis, aestivalibus 1.5—2cm longis, margine dense strigoso-ciliatis, nervis lateralibus saepe obsoletis, inflorescentiis 3—4-floris, calyce lobis inconspicue obtuso-triangularibus, filamentis supra basin puberulis.

Frutex, ramuli graciles, subverticillati, juventute strigosi, mox verrucosi asperati relictis. Folia coriacea, dimorphica; vernalia elliptica vel oblongo-elliptica, 4—5.5cm longa, 1.5—1.8cm lata, apice acutiuscula, basi anguste cuneata vel subrotundata, interdum bilateraliter asymmetrica, margine strigosi-ciliata, supra sericea alba strigosa, subtus in sicco castanea, strigosa, nervis lateralibus 4, supra tantum visis, subtus subconspicuis; petioli graciles, 9—10mm longi, dense strigosi, (folia) aestivalia minora, elliptica 1.5—2cm longa, 7—9mm lata, apice acutiuscula, basi lato-cuneata, nervis lateralibus utrinque evanescentibus, petioli 2—4mm longi, ceterum ut vernalia. Umbella 3—4-flora; pedicelli 8—10mm longi, dense ferrugineo-strigosi, squamis subpersistentibus, calyx parvus, 2mm diam., lobis 5, inconspicue obtuso-triangularibus, corolla glabra, emaculata, anguste infundibuliformis, tubo cylindraco, 9mm longo, 2—2.5mm lato, lobis 5, obovato-oblongis, obtuso-mucronatis, 6—7mm longis; stamina 5, filamentis 2—2.5cm longis, supra basin puberulis; ovario ovoideo, 2mm longo, dense ferrugineo-strigoso, stylo 2.3—2.4cm longo, glabro.

Fujian, (福建): Nanping, (南平) 18. Mar. 1931, Y. Ling (林镕) 2300 (Typus, S), 2204.

7. 黑叶杜鹃 新种 (映山红组)

Rhododendron piceum Tam, sp. nov.

(Sect. *Anthodendron*)

近似溪畔杜鹃 *Rh. rivulari* Hand.-Mazz., 但幼嫩部份无粘质，春

发叶较小，卵状长圆形，顶端短渐尖，叶柄细长，花冠筒直立，圆柱状。

Specimine p. m. *Rh. rivulari* Hand. -Mazz. propinquat sed partibus juvenilibus haud viscidis, foliis vernalibus minoribus ovato-oblongis, brevi-acuminatis, petiolis gracilibus, tubo corollae erecti-cylindraceo.

Frutex; ramulis gracilibus, juventute setulosis opacis rubro-brunneis glandularibus obductis. Folia coriacea, dimorpha: vernalia ovato-lanceolata, apice breve acuminata, basi semper angusto-cuneata, 3.5—4cm longa 1.2—1.6cm lata, supra in sicco picea, griseo-puberulenta, nervis lateralibus 7—9, tantum visis interdum desinentibus, procul a margine anastomosantibus, puberulentis, subtus in sicco rubro-brunneis, dense strigosis; petioli circa 9mm longi, dense setulosi, (folia) aestivalia oblonga vel ovato-oblonga, apice brevi-acuminata, basi cuneata vel latiore cuneata, 5.5—6cm longa, 2.2—2.6cm lata; petioli 4—5cm longi. Umbellae 10-florae, pedicelli graciles, 1.2—1.4cm longi, dense patente ferrugineo-hirsuti; calyx parvus, dense ferrugineo-hirsutus, lobis 5, crenulatis, corolla anguste infundibuliformis, 2.3—2.5cm longa, tubo recti-cylindraceo, 1.3cm longo, lobis 5, patentibus, lanceolatis interdum oblanceolatis, 1—1.2cm longis, 3.5—4mm latis, apice acutissimis, filamentis 5, 2.3—2.8cm longis, infra medium subglabris vel puberulentis, ovario ferrugineo-setuli-formi-strigoso, stylo gracile, 3cm longo, glabro. Fructus ignotus.

Fujian, (福建): Sanming Xian (三明县), Xiaohu (小湖), 20 Apr. 1964, Coll. Silvicult. Fujian (福建林学院) 86 (Typus, H).

8. 千针叶杜鹃 新种 (映山红组) 照片4

Rhododendron polyraphidoideum Tam, sp. nov.

(Sect. *Anihodendron*)

习性近似粘芽杜鹃 *Rh. viscigemmatum* Tam (产广西)，但本种的花芽无粘质，春发叶卵形或长圆状卵形，较小，长约2厘米（非长2.5—3.5厘米），花较大（长约1.6厘米，非长1厘米），花柱无毛，可资识别。

Species ex affinitate *Rh. viscigemmato* Tam (e Guangxi) habitu simillima) gemmae floriferae non viscidae, foliis vernalibus

ovatis oblongo-ovatisve, minoribus, circa 2cm longis, floribus majoribus (circa 1.6cm longis, non 1cm longis), stylo glabro recedit.

Frutex, ramulis subverticillatis, gracillimis, juventute dense appresso-strigosis. Folia coriacea, dimorphica, vernalia ovata vel oblongo-ovata, circa 2cm longa, 9—10mm lata, apice obtuso-acuta, basi cuneata vel subattenuata, supra et subtus conspicue strigosa et sparse ferruginea, nervis lateralibus utrinsecus evanescentibus; petioli saepe minus quam 2mm longi, strigosi densi ferrugineique vel subsessiles, (folia) aestivalia fere conformia, 1.2—1.5cm longa, circa 7mm lata, ceterum ut vernalia. Umbellatae 2—3-florae; pedicelli 4mm longi, dense strigosi; calyce cupulare, 3.5mm lato, lobis 5, subovatis usque ovato-oblongis, 2—2.2mm longis, 1.5mm latis, extus et margine dense strigosis. Intus glabris; corolla oblique brevique campanulato-infundibuliformis, 12—14.5mm longa, tubo cylindrico, lobis 5, lingulato-oblongis; stamina 5, 1.5—2cm longa, filamentis in medio sparse pilosis; ovario ovato, 3.5mm longo, dense strigoso, stylo 1.7—2cm longo, glabro, stigmate depresso-capitato. Capsula ovoidea vel subglobosa, circa 5mm diam., dense strigosa. Stipite circa 6mm longo, denso-strigoso.

Fujian (福建): Chongan Xian (崇安县), Singchun (星村), 3 Apr. 1975, L. K. Lee (李良官) 75103 (Typus, FM); *ibid.* Wuyi Shan (武夷山), S. S. Chien (钱士心) 581.

8a. 岭上杜鹃 新变种

var. *montanum* Tam, var. nov.

花柱中部以下或基部附近被深褐色的糙伏毛。

Stylo infra medium vel prope basin strigoso brunneo oblecto.

Guangxi (广西): Daming Shan (大明山), 25 Aug. 1951, C. S. Tsai (蔡灿星) 5401 (Typus, S); *ibid.* 12 Aug. 1951, C. S. Tsai 5134.

Hunan (湖南): Yizhang Xian (宜章县), Mangshan (莽山), 1420 m s. m. 16 Aug. 1964, M. S. Mong (黄茂先) 112057; *ibid.* 1450 m s. m. M. S. Wong 111420.

Guangdong (广东): Huaiji Xian, (怀集县), Y. K. Lau (埃光) 2572.

9. 茶绒杜鹃 新种 (映山红组)

Rhododendron rufescens Tam, sp. nov.

(Sect. *Anthodendron*)

与广东杜鹃 *Rh. kwangtungense* Merr. et Chun 有近缘, 不同处在于: 春发叶较小(长3.5—4.2厘米), 椭圆形, 偶卵形, 背面被短柔毛, 杂以细糙伏毛, 花萼(边缘)截形, 偶多少呈波状, 花冠裂片狭长圆形, 非长圆状椭圆形。

Rh. kwangtungensi Merr. et Chun verosimiliter affine, foliis vernalibus minoribus (3.5—4.2cm longis), ellipticis interdum ovatis, subtus pubescentibus et strigulosis intermixtis, calycis truncatis vel plus minusve undulatis, lobis corollae anguste oblongis, capsulis ovoideis differt.

Frutex, rami teretes, atro-cinerei, juventute dense glandulari-setosi, gradatim glababri; foliis coriaceis dimorphicis: vernalibus ellipticis interdum ovatis, 3.5—4.2cm longis, 1.5—2cm latis, apice abrupte acutis, basi late cuneatis vel obtusis, supra in sicco saturate griseo-brunneis, initio strigulosi densis sericeis mox glabrescentibus, subtus in sicco rubro-brunneis, pubescentibus rubro-brunneis et strigulosis intermixtis; nervis lateralibus prominentibus; petioli dense glandulari-setosi, 5—8mm longi; (foliis) aestivalibus anguste ellipticis, 2—2.5cm longis, circa 1cm latis, petiolis brevioribus 3—4mm longis, ceterum ut vernalibus. Umbella 14-flora; pedicelli graciles, 1cm longi, dense strigosi; calyce truncato, interdum plus minusve undulato, dense strigoso; corolla purpureo-rubra, anguste infundibuliformis, 1.5—2cm longa, glabra, lobis, 5, anguste oblongis, acutis 8—10mm longis, patentibus, tubo 7—10mm longo; stamina 5, filamentis 2—2.5cm longis, glabris; ovario circa 4mm longo, dense strigoso, stylo staminibus longiore, 2.7cm longo, glabro. Capsula ovoidea, 6—8mm longa, 4mm diam., dense rubro-brunneo-strigosa; pedicelli 0.7—1cm longi, dense strigosi.

Fujian (福建); Sanming Xian (三明县), Zhikouling (莘口岭),

27 Apr. 1931, Ling Ying (林英) 216 (Typus, S), 200, ibid. L. K. Ling (林来官) 6000 (N), Yongan Xian (永安县), Ji Shan, (吉山), 24 Apr. 1931, Y. Ling (林镕) 2070, 2847; Dehua Xian (德化县), 26 Sept. 1930, P. C. Chung (钟补勤) 89, 1008; Longyan Xian (龙岩县), 530 m S. m. in itinere extra silvae mixtae, Jul. 1951, Y. C. Ling (林汝昌) 2016, 2321, 2688; sine loco, L. K. Lee 731.

10 蕉黄杜鹃 新种 (映山红组)

Rhododendron spadiceum Tam, sp. nov.

(Sect. *Anthodendron*)

骤然看, 似杆黄杜鹃 *Rh. subcerinum* Tam, 但本种的枝纤细, 被长柔毛状糙伏毛, 春发叶椭圆形至披针状椭圆形, 花萼裂片圆形, 花较大 (花冠长2.8—3.4厘米)。

Rh. subcerino Tam primo aspectu maxime simile, sed ramis gracilibus piloso-strigosis, foliis vernalibus ellipticis usque lanceolato-ellipticis, calyce lobis rotundis, floribus majoribus.

Frutex, ramis ramulisque teretibus gracilibus, griseis usque purpureo-brunneis, pilis strigosis patentibus, sordidis obtectis. Folia coriacea, dimorphica, vernalia elliptica usque lanceolato-elliptica, 5—5.5cm longa, 2—2.2cm lata, apice acuminata vel breviacuta, basi attenuata, supra subglabra, sub lente verrucosa, subtus puberula et strigosa intermixta, nervis lateralibus circa 8-jugatis, dense strigulosis; petioli 5—8mm longi, strigosi; (folia) aestivalia lato-elliptica, 1.8—2cm longa, circa 1cm lata, apice subito acuta, basi semper decurrentia; petioli 6—7mm longi. Umbella circa 10-flora; pedicelli 6—7mm longi, strigosi; calyx cupuliformis, dense strigosus, lobis 5, rotundatis, margine erosullis, corolla reseco-purpurea, anguste oblique infundibuliformis, 2.8—3.4cm longa, 1.8—2cm diam., tubo 1.5—1.8cm longo, lobis 5, oblongo-obovatis, 1.3—1.6cm longis; stamina 5, 3—3.5cm longa, filamentis puberulis; ovarium ovoideum, 4mm longum, strigosum, stylo 3.7cm longo, basi sparse strigoso. Fructus haud visus.

Fujian (福建): Shanghang Xian (上杭县), comm. in silvae

mixtae, 8 Maj. 1974, Y. C. Jiang (江英志) 740703 (Typus, FM).

11 秆黄杜鹃 新种 (映山红组) 图 1

Rhododendron subcerinum Tam, sp. nov.

(Sect. *Anthodendron*)

本种花期在秋季, 最为特色, 性状似紫花杜鹃 *Rh. mariae* Hance, 但叶倒卵形或倒卵状椭圆形, 背面有洼孔, 侧脉在表面明显凹入, 花柱下部被糙伏毛。

Species imprimis primo auctumno florens insignis, *Rh. mariae* Hance affinis sed foliis obovatis vel obovato-ellipticis subtus foveolatis, nervis lateralibus supra conspicue impressis, stylo in triente inferiore strigoso differt.

Fruticulus, rami grisei juventute dense brunnei strigosi. Folia coriacea, dimorpha; vernalia obovata vel obovato-elliptica, 4.5—5.5cm longa, 2—2.5cm lata, apice abrupte acuminata mucronata, basi attenuata vel anguste cuneata, supra atro-viridia in sicco opaco-straminea subtus pallide viridia sparse strigosa sub lente foveolata; nervis lateralibus supra conspicue impressis ascendentibus, juxta marginem arcuato-anastomosantibus subtus prominentibus; petioli 3—5mm longi, sparse strigosi demum glabrescentes; (folia) aestivalia brevi-petiolata, variabilia, plerumque elliptica, circa 2.3cm longa, 4—10mm lata, apice acuminata basi attenuata, ceterum ut vernalia. Inflorescentia circa 6-flora; pedicelli umbellati compositi, 0.6—1cm longi, flavido-brunnei strigosi; calyx cupularis, lobis deleoideis strigosis; corolla rubra, funduliformi-campanulata, 2cm longa, lobis spathulatis circa 1cm longis, patentibus, tubo 9mm longo, 4mm lato; stamina 5, inaequalia exserta, filamentis albis pro maxima parte compressis puberulis; ovario ferrugineo-strigoso oblecto, stylo 2.4cm longo, in triente infra strigoso, stigmatibus capitato. Capsula ellipsoidea, 1cm longa, cinereo-brunnea strigosa, stipite brevi-crasso, strigoso. Floret in Octobri.

Guangdong (广东): Yangchun Xian (阳春县), Xianjiadong (仙家洞), in rimis rupium, fl. rub. 31 Oct. 1935, C. Wang

(黄志) 38590 (Typus, S) .

12. 荔叶杜鹃 新种 (映山红组) 图 2

Rhododendron litchiifolium T. C. Wu* et Tam, sp. nov.

(Sect. *Anthodendron*)

本种与紫花杜鹃 *Rh. marae* Hance, 极相似, 但比较之下不同: 枝, 嫩叶和叶柄被灰色糙伏毛, 叶两面有光泽, 侧脉在表面明显凹入, 花冠裂片顶端急尖, 微缺, 雄蕊远长于雌蕊。

Speciss forsitan *Rh. mariae* Hance tantum comparabilibus, a quo differt ramis cum juvenaliter foliis et petiolis cinereo-albis strigosis, foliis utrinque nitidis, nervis lateralibus supra manifeste impressis, lobis corollae apice subito acutis et mucronulatis staminibus magis longioribus quam pistillo.

Frutex 2m altus; ramulis gracilibus, dense strigosis cinereo-albis sericeisque. Folia tenuiter coriacea, dimorphica, vernalia oblongo-elliptica 5—5.3cm longa, 2—2.2cm lata, apice breviate, basi cuneata, margine leviter revoluta, sparse strigosa, utrinque nitida et glabrescentia, sed juventute cinereo-alba strigosa, supra in sicco leviter castanea, subtus in sicco straminea vel luteo-brunnea, nervis lateralibus 9—10-jugatis, supra leviter impressis, subtus prominentibus, sparse strigosis cinereis; petioli 7—12mm longi, dense et adpresse cineraceo-albi strigosi; (folia) aestivalia oblongo-lanceolata vel lanceolata, 1.8—3cm longa, 0.6—1cm lata, petioli circa 7mm longi. Umbellae 10—12-florae, pedicelli 8—11mm longi, strigosi; calyx 1.5—2.5mm latus, lobis obscuris, corolla purpureo-rubra, 2—2.2cm longa, circa 3cm diam., lobis 5, oblongis, 1—1.2cm longis, 5—6mm latis, apice subito acutis, mucronulatis, stamina 5, 3cm longa, filamentis glabris, ovario ovoideo, 3mm longo, dense ferrugineo-strigoso, stylo gracile, glabro, 2.4cm longo staminibus multo brevioribus. Fructus ignotus.

Guangdong (广东): Haifeng Xian, (海丰县), Lianhua Shan (莲花山), in fluminis vallium dumentorum, 4 Maj. 1975, T. C.

* T. C. Wu, Wu Tung-cheng (吴栋成), Institute of Material Medicine, Guangdong.

Wu (吴栋成) 900 (Typus, GM) .

13 短柄杜鹃 新种 (马银花亚属, 长蕊组) 图 3

Rhododendron subespitatum Chun ex Tam, sp. nov.

Rh. brevipes Chun in sched.*

(Subgen. *Azaleastrum* Planch., Sect. *Cheniastrum* Franch.)

本种与太平杜鹃 *R. championae* Hook. 有近缘, 但叶近无柄, 叶片薄, 扁平, 长圆状椭圆形, 基部阔楔形或近心形, 花单生, 很少成对着生, 花萼盘状, 边缘波状或呈不明显的细圆齿状, 易于识别。

Species affinis *Rh. championae* Hook., sed foliis subsessilibus, laminis tenuiter chartaceis complanatis oblongo-ellipticis basi lato-cuneatis vel sub-cordatis, floribus singularibus raro gemmatis, calyce patelliforme margine undulato vel inconspicue crenulato facile distinguitur.

Fruticulus; ramulis gracilibus erectaceis sparse glandulari-setosis vel glabrescentibus. Folia subsessilia, tenuiter chartacea persistentia in apice ramulorum conferta oblongo-elliptica, 7.5—13.5cm longa, 2—4.5cm lata, apice brevi-caudato-acuminata basi lato-cuneata vel subcordata, margine plana setoso-ciliata, utrinque gradatim glabra, costa media excepta, nervis lateralibus circa 14 supra manifeste reticulatis, subtus saepe prominente arcuto-anastomosantibus prope marginem. Inflorescentia 1—2—flora, aggregata; pedicelli 1.7cm longi, ferruginei glandulo-villosi; calyx patelliformis sparse glanduloso-setosus, 3mm diam., margine undulatus vel inconspicue crenulatus, corolla campanulata rubra, 5.5cm longa, lobis quinque 3cm longis, obovato-oblongis; stamina 10 leviter sursum curvata, filamentis inaequalibus 4.7—5.2cm longis inferne 1/3 puberulis; stylo 4.7cm longo, exserto glabro, stigmathe depresse discoideo, ovario erecto-cylindrico fulvo-puberulo, 8mm longo. Capsula non visa.

Guangdong (广东): Xinyi Xian, (信宜县), in scopulo, 31 Mar. 1932, C. Wong (黄志) 31755 (Typus, S); ibid. Y. C. Wong (黄

* *Rh. brevipes* Chun (in sched.) is a later homonym of *Rh. brevipes* Sleum. (1960. e N. Guin.).

荣崑) 31758.

14. 头巾杜鹃 新种 (马银花亚属, 马银花组)

Rhododendron mitriforme Tam, sp. nov.

(Subgen. *Azaleastrum* Planch, Sect. *Euazaleastrum* Sleumer)

本种与马银花 *Rh. ovatum* Planch. 有近缘, 但叶椭圆状长圆形, 很少倒卵状长圆形, 叶柄和花梗无毛, 尤其花萼呈大型的头巾状, 全部包着蒴果, 最为不同。

Species affinis *Rh. ovato* Planch. sed foliis elliptico-oblongis, rarissime obovato-oblongis, petiolis pedicellisque glabris, praesertim calyce majore mitriforme fructum pro omnino tegente differt.

Frutex erectus, ramuli cretacei usque albido-brunnei, striati, glabri, in sicco glaucescentes. Folia coriacea, elliptico-oblonga, raro obovato-oblonga, 4—8.5cm longa, 2—3cm lata, apice brevi-acuminata vel abrupte acuta et caudata, basi lato-cuneata vel subrotundata, utrinque atro-puncticulata, nervis lateralibus 10—12-jugatis, tenuiter, visibilibus siccitate, petioli elongato-crassuli, 6—13mm longi, in statu sicco glauci. Flores ignoti. Capsula solitaria, axillaris ad apicem ramulorum disposita, ovoidea, circa 8mm longa, glandulari-setosa, maturitate atro-brunnea, in calycem persistentem inclusa; calyce persistente mitriforme, magno, glabro, lobis 5, obovato-ellipticis vel foliaceis multinerviis, 1—1.5cm longis, circa 8 latis, margine crispo-undulatis, apice subrotundis; stylo persistente, glabro, 4cm longo, stigmate discoideo, lobato, pedicellis glabris.

Guangxi (广西): He Xian, (贺县), 680m s. m., in rivulare silvae apertae, 13 Sept. 1958, Y. K. Lee (李荫昆) 401563 (Typus, S), 401015, 401354; Guangyang Xian (灌阳县), 500m s. m., Y. K. Lee 401288; C. K. Tsiang (蒋庆坤) 263.

Hunan (湖南): Jianghua Xian, (江华县), 800m s. m., 30 Oct. 1975, P. K. Lee (李丙贵) et S. P. Wan (万绍滨) 5262.

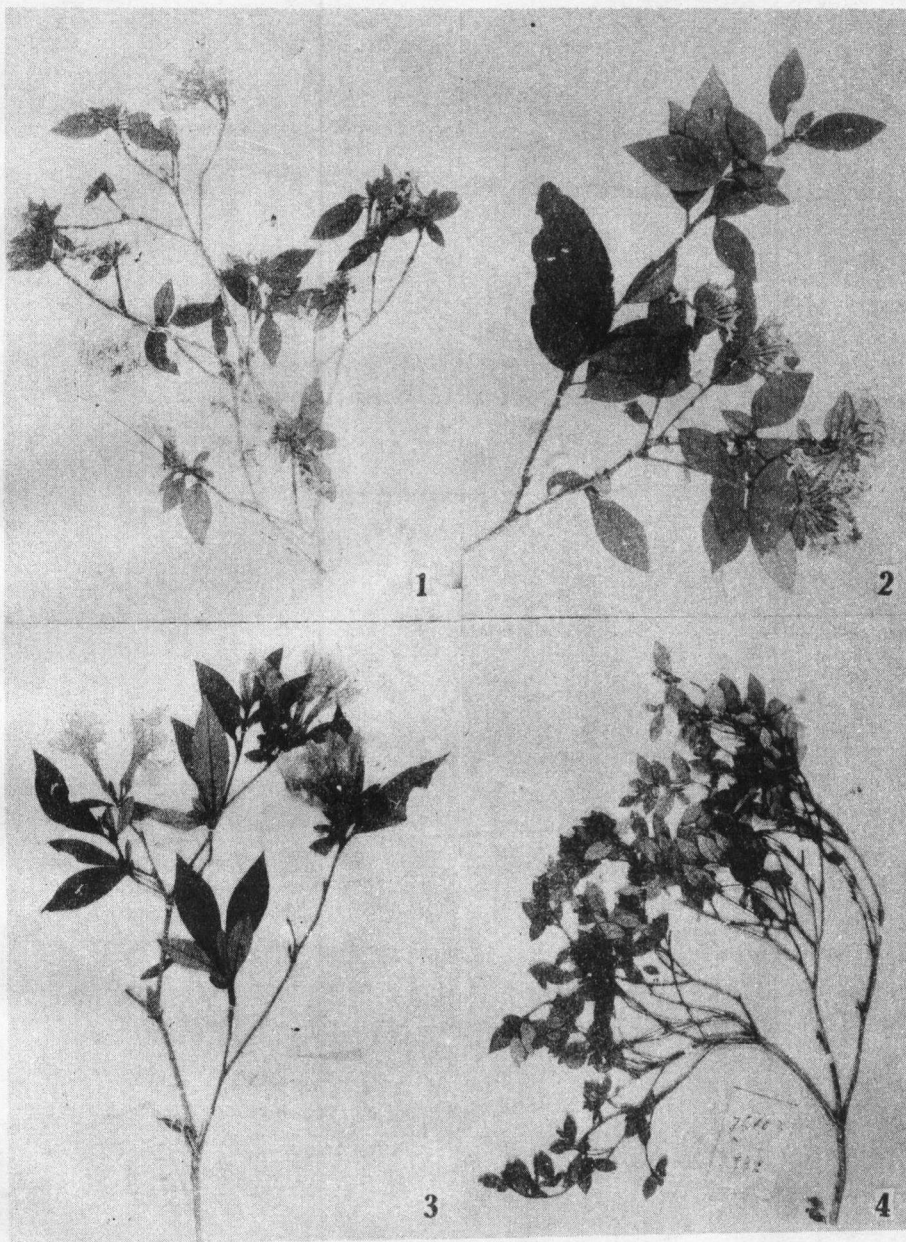
14a. 腺刺杜鹃 新变种 图4

var. *setaceum* Tam, var. nov.

果梗密被有腺头的刚毛。

Pedicellis omnibus dense glandulari-setulosis.

Guangxi (广西): Xingan Xian (兴安县), in silvis densis montum, 1,080m s.m., 21 Jul. 1958, C.C. Chen (陈照宙) 51194 (**Typus**, S), 21209; Guangyang Xian (灌阳县), C. C. Chen 52200; Zhiyuan Xian, (资源县), Z. S. Chung (钟济新) 83568.



1. 上杭杜鹃

Rh. apricum Tam (李良官 740740)

3. 忍冬杜鹃

Rh. loniceraeflorum Tam (李良官 740123)

2. 繁花杜鹃

Rh. florulentum Tam (李良官 740501)

4. 千针叶杜鹃

Rh. polyraphidoideum Tam (李良官 75103)



图 1 籽黄杜鹃 *Rhododendron subcerinum* Tam
1. 花枝; 2. 叶背面; 3. 花; 4. 雄蕊; 5. 雌蕊。(黄少容绘)



图 2 荔枝杜鹃 *Rhododendron litchiifolium* Tam
1. 花枝；2. 雄蕊和雌蕊；3. 花冠（裂开）。（吴祚成绘）



图 3 短柄杜鹃 *Rhododendron subestipitatum* Chun ex Tam
(吴栋成绘)



图 4 腺刺杜鹃 *Rhododendron mitriforme* Tam var. *setaceum* Tam
1. 果枝；2. 果；3. 拨开宿存萼示蒴果。（黄少容绘）